



SPYWOLF

Security Audit Report



Audit prepared for
Monstro's Degenz V1.5

Completed on
February 16, 2024





OVERVIEW

This goal of this report is to review the main aspects of the project to help investors make an informative decision during their research process.

You will find a summarized review of the following key points:

- ✓ Contract's source code
- ✓ Owners' wallets
- ✓ Tokenomics
- ✓ Team transparency and goals
- ✓ Website's age, code, security and UX
- ✓ Whitepaper and roadmap
- ✓ Social media & online presence

“

The results of this audit are purely based on the team's evaluation and does not guarantee nor reflect the projects outcome and goal

- SPYWOLF Team -

”





KEY RESULTS

Cannot mint new tokens	N/A
Cannot pause trading (honeypot)	*
Cannot blacklist an address	Passed
Cannot raise taxes over 25%?	Passed
No proxy contract detected	Passed
Not required to enable trading	*
No hidden ownership	Passed
Cannot change the router	N/A
No cooldown feature found	Passed
Bot protection delay is lower than 5 blocks	N/A
Cannot set max tx amount below 0.05% of total supply	Passed
The contract cannot be self-destructed by owner	Passed

N/A = Not applicable for this type of contract

*Only new deposits/reinvestments can be paused

For a more detailed and thorough examination of the heightened risks, refer to the subsequent parts of the report.



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Monstro's Degenz V1.5



PROJECT DESCRIPTION

According to their whitepaper:

"Are you a DeFi enthusiast who loves the allure of profitable ROI dApps but hates enduring endless losses? Look no further than Monstro's Degenz! Unleash your inner degen amongst the safety of your fellow monsters."

Release Date: Launching Feb 14, 2024

Category: ROI dApp, Farming



CONTRACT INFO

Token Name MonstroDegenzSlv2	Symbol N/A
Contract Address 0x5314eb15E1DA83BfbdC49E46DCF70277403Fc40d	
Network Binance Smart Chain	Language Solidity
Deployment Date Feb 15, 2024	Contract Type Staking
Total Supply N/A	Status Launched

TAXES



*For more information refer to slide 8



Our Contract Review Process

The contract review process pays special attention to the following:

- ✓ Testing the smart contracts against both common and uncommon vulnerabilities
- ✓ Assessing the codebase to ensure compliance with current best practices and industry standards.
- ✓ Ensuring contract logic meets the specifications and intentions of the client.
- ✓ Cross referencing contract structure and implementation against similar smart contracts produced by industry leaders.
- ✓ Thorough line-by-line manual review of the entire codebase by industry experts.

Blockchain security tools used:

- OpenZeppelin
- Mythril
- Solidity Compiler
- Hardhat



TOKEN TRANSFERS STATS

Transfer Count	N/A
Uniq Senders	N/A
Uniq Receivers	N/A
Total Amount	N/A
Median Transfer Amount	N/A
Average Transfer Amount	N/A
First transfer date	N/A
Last transfer date	N/A
Days token transferred	N/A

SMART CONTRACT STATS

Calls Count	635
External calls	0
Internal calls	635
Transactions count	635
Uniq Callers	414
Days contract called	2
Last transaction time	2024-02-16 16:40:34 UTC
Created	2024-02-15 15:12:56 UTC
Create TX	0x8f2836a1149b0228290a0b6d6438d7d21cb3707802b30f50e74f90c2227aab6
Creator	0xcc4c5217bdf5a4fec38476531bd4546cbc306290



VULNERABILITY ANALYSIS

ID	Title	
SWC-100	Function Default Visibility	Passed
SWC-101	Integer Overflow and Underflow	Passed
SWC-102	Outdated Compiler Version	Passed
SWC-103	Floating Pragma	Passed
SWC-104	Unchecked Call Return Value	Passed
SWC-105	Unprotected Ether Withdrawal	Passed
SWC-106	Unprotected SELFDESTRUCT Instruction	Passed
SWC-107	Reentrancy	Passed
SWC-108	State Variable Default Visibility	Passed
SWC-109	Uninitialized Storage Pointer	Passed
SWC-110	Assert Violation	Passed
SWC-111	Use of Deprecated Solidity Functions	Passed
SWC-112	Delegatecall to Untrusted Callee	Passed
SWC-113	DoS with Failed Call	Passed
SWC-114	Transaction Order Dependence	Passed
SWC-115	Authorization through tx.origin	Passed
SWC-116	Block values as a proxy for time	Passed
SWC-117	Signature Malleability	Passed
SWC-118	Incorrect Constructor Name	Passed



VULNERABILITY ANALYSIS

ID	Title	
SWC-119	Shadowing State Variables	Passed
SWC-120	Weak Sources of Randomness from Chain Attributes	Passed
SWC-121	Missing Protection against Signature Replay Attacks	Passed
SWC-122	Lack of Proper Signature Verification	Passed
SWC-123	Requirement Violation	Passed
SWC-124	Write to Arbitrary Storage Location	Passed
SWC-125	Incorrect Inheritance Order	Passed
SWC-126	Insufficient Gas Griefing	Passed
SWC-127	Arbitrary Jump with Function Type Variable	Passed
SWC-128	DoS With Block Gas Limit	Passed
SWC-129	Typographical Error	Passed
SWC-130	Right-To-Left-Override control character (U+202E)	Passed
SWC-131	Presence of unused variables	Passed
SWC-132	Unexpected Ether balance	Passed
SWC-133	Hash Collisions With Multiple Variable Length Arguments	Passed
SWC-134	Message call with hardcoded gas amount	Passed
SWC-135	Code With No Effects	Passed
SWC-136	Unencrypted Private Data On-Chain	Passed



THREAT LEVELS

When performing smart contract audits, our specialists look for known vulnerabilities as well as logical and access control issues within the code. The exploitation of these issues by malicious actors may cause serious financial damage to projects that failed to get an audit in time. We categorize these vulnerabilities by the following levels:

High Risk

Issues on this level are critical to the smart contract's performance/functionality and should be fixed before moving to a live environment.

Medium Risk

Issues on this level are critical to the smart contract's performance/functionality and should be fixed before moving to a live environment.

Low Risk

Issues on this level are minor details and warning that can remain unfixed.

Informational

Information level is to offer suggestions for improvement of efficacy or security for features with a risk free factor.



FOUND THREATS

High Risk

No high risk-level threats found in this contract.

Medium Risk

No medium risk-level threats found in this contract.

Low Risk

No low risk-level threats found in this contract.



Informational

Owner can migrate users with manually filled data until migrationCompleted is set to true.

```
function completeMigration() public onlyOwner {
    migrationCompleted = true;
}

function migrateWalletData(
    address[] memory _walletAddresses,
    uint256[] memory _lastActions,
    uint256[] memory _maxPayouts,
    uint256[] memory _totalDeposited,
    uint256[] memory _totalReinvested,
    uint256[] memory _totalStaked,
    uint256[] memory _totalClaimed,
    uint256[] memory _farmzContributions,
    uint256[] memory _lockedFunds
) public onlyOwner onlyBeforeMigration {
    require(_walletAddresses.length == _lastActions.length,
        "Data arrays must have the same length");

    for (uint i = 0; i < _walletAddresses.length; i++) {
        // Skip if the wallet has already been migrated
        if (hasMigrated[_walletAddresses[i]]) {
            continue;
        }

        WalletInfo storage wallet = walletData[_walletAddresses[i]];
        wallet.lastAction = _lastActions[i];
        wallet.maxPayout = _maxPayouts[i];
        wallet.totalDeposited = _totalDeposited[i];
        wallet.totalReinvested = _totalReinvested[i];
        wallet.totalStaked = _totalStaked[i];
        wallet.totalClaimed = _totalClaimed[i];
        wallet.farmzContribution = _farmzContributions[i];
        wallet.lockedFunds = _lockedFunds[i];

        // Update global stats
        globalDeposited += _totalDeposited[i];
        globalReinvested += _totalReinvested[i];
        globalStaked += _totalStaked[i];
        globalClaimed += _totalClaimed[i];

        // Flag them as migrated
        hasMigrated[_walletAddresses[i]] = true;

        // Make sure they are in accessible depositors list
        _addDepositor(_walletAddresses[i]);
    }
}
```



Informational

Owner can pause new deposits and reinvestments.

```
function toggleDepositsAndReinvests() public onlyOwner {
    depositsAndReinvestsPaused = !depositsAndReinvestsPaused;

    emit DepositsAndReinvestsToggled(depositsAndReinvestsPaused);
}
```

Owner can withdraw bnb from the contract for amounts up to the taxes collected for team/marketing/jackpot/genesis.

```
function withdrawJackpotTax() external onlyOwner {
    uint256 amount = owedToJackpot;
    owedToJackpot = 0;
    payable(walletJackpot).transfer(amount);

    emit WithdrawJackpotTax(amount);
}

function withdrawMarketingTax() external onlyOwner {
    uint256 amount = owedToMarketing;
    owedToMarketing = 0;
    payable(walletMarketing).transfer(amount);

    emit WithdrawMarketingTax(amount);
}

function withdrawGenesisTax() external onlyOwner {
    uint256 amount = owedToGenesis;
    owedToGenesis = 0;
    payable(walletGenesis).transfer(amount);

    emit WithdrawGenesisTax(amount);
}

function withdrawTeamTax() external onlyOwner {
    uint256 amount = owedToTeam;
    owedToTeam = 0;
    payable(walletTeam).transfer(amount);

    emit WithdrawTeamTax(amount);
}
```




Informational

There is a 30 hours cutoff period for staking rewards.

Example – User stake and want to claim their rewards after 4 days, he/she will get the rewards for 30 hours period but not for 4 days.

```
function calculateClaimableAmount(address wallet) public view returns (uint256) {
    WalletInfo storage user = walletData[wallet];

    // Ensure that the user has some staked value
    if (user.totalStaked == 0) {
        return 0;
    }

    // Calculate the time difference (in seconds) since the last action
    uint256 timeElapsed = block.timestamp - user.lastAction;

    // Limit the timeElapsed to 30 hours (108000 seconds)
    if (timeElapsed > 108000) {
        timeElapsed = 108000;
    }

    .....
}
```

Migrated users can claim rewards at least after 7 days after migration is done.

```
function canPerformRestrictedAction(address user) public view returns (bool) {
    // If the user has not migrated, they can perform the action
    if (!hasMigrated[user]) {
        return true;
    }

    // Check if 7 days have passed since migration
    uint256 migrationDateKey = _getCurrentDateKey() - 7 days;
    return dailyDeposits[migrationDateKey] != 0 || dailyClaims[migrationDateKey] != 0;
}

function _claim(uint256 claimableAmount) private {
    require(canPerformRestrictedAction(msg.sender), "Restricted action not allowed yet");
    .....
}
```



RECOMMENDATIONS FOR

GOOD PRACTICES

1

Consider fundamental tradeoffs

2

Be attentive to blockchain properties

3

Ensure careful rollouts

4

Keep contracts simple

5

Stay up to date and track development

Monstro's Degenz

GOOD PRACTICES FOUND

- ✓ The owner cannot set a transaction limit



This is a ROI contract offering daily ROI up to 3%
Users can increase their daily ROI through NFT and Personal "boosts". NFT bonuses are up to 1% and deposit value bonuses up to 1% allow for a total of 3% daily ROI.

Deposited funds are allocated as follows:

- 65% - Liquidity
- 30% - Farmz
- 5% - Marketing

Claims are subject to a 10% tax:

- 4% - Team
- 2.5% - Jackpot
- 2.5% - Marketing
- 1% - Genesis NFT holders

***ROI** - Return of investment

ROI dapps are usually subject to high volatility and considered as high risk investments.

TOKENOMICS



THE TEAM

✓ The team at Monstro is well-known and publicly doxxed. LinkedIn profiles were provided.

0xVarius

<https://www.linkedin.com/in/varius/>



Technology

Tilting-Shock

<https://www.linkedin.com/in/adam-hudani/>



Business & Operations

GaboSagaz



Marketing



WEBSITE

Home Website URL

<https://monstro.fun/>

Domain Registry

<https://namecheap.com>

Domain Expiration

2024-04-20

Technical SEO Test

Passed

Security Test

Passed. SSL certificate present

Design

Very nice color scheme and overall layout.

Content

The information helps new investors understand what the product does right away. No grammar mistakes found.

Whitepaper

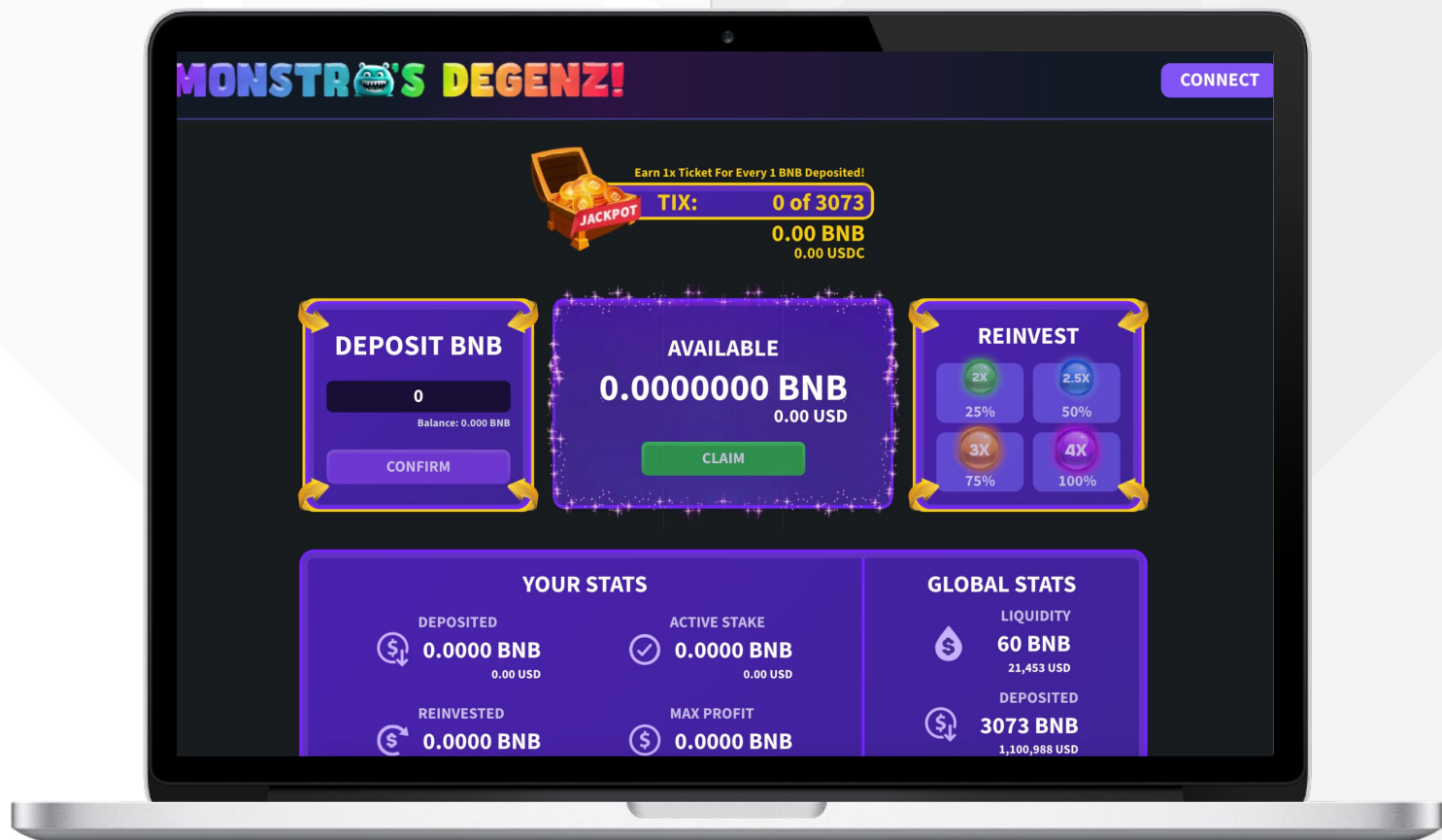
Well written and explanatory documents page

Roadmap

Yes, goals set

Mobile-friendly?

Yes



monstro.fun/degenz

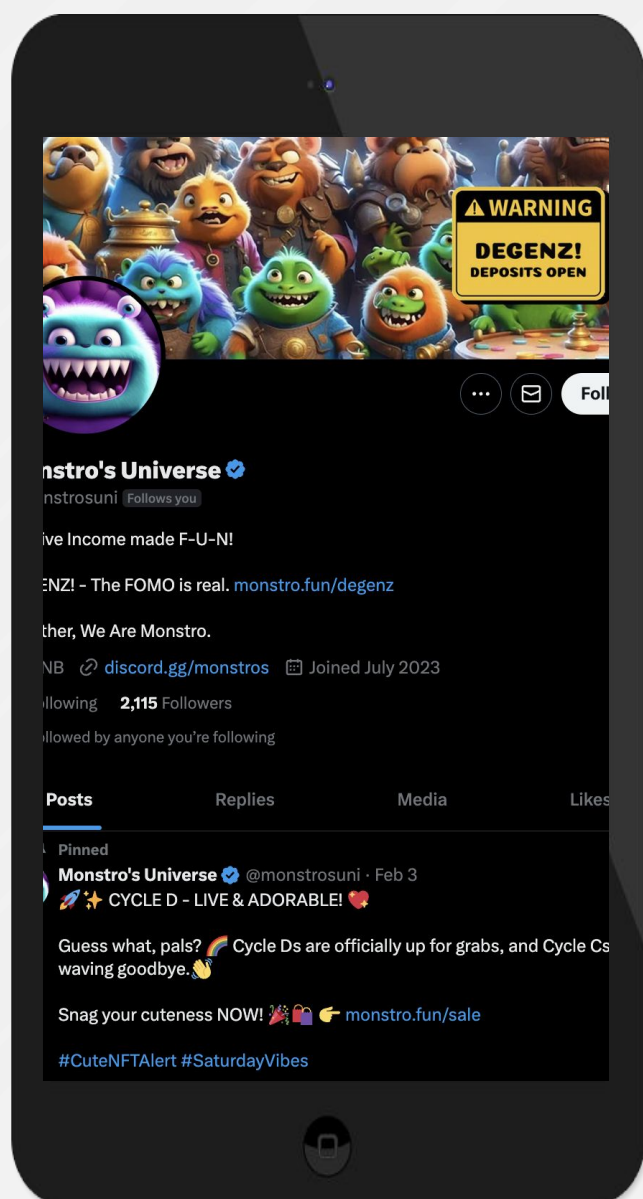


SOCIAL MEDIA & ONLINE PRESENCE



ANALYSIS

Project's social media pages are very active with devs and users interacting often.



Twitter

@monstrosuni

- 2 131 followers
- Active
- Posts frequently



Discord

@monstros

- 2 378 members
- Active community



Telegram

@monstrosU

- 964 members
- Active members
- Active mods



Medium

- Not available



SPYWOLF

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Disclaimer

This report shows findings based on our limited project analysis, following good industry practice from the date of this report, in relation to cybersecurity vulnerabilities and issues in the framework and algorithms based on smart contracts, overall social media and website presence and team transparency details of which are set out in this report. In order to get a full view of our analysis, it is crucial for you to read the full report.

While we have done our best in conducting our analysis and producing this report, it is important to note that you should not rely on this report and cannot claim against us on the basis of what it says or doesn't say, or how we produced it, and it is important for you to conduct your own independent investigations before making any decisions. We go into more detail on this in the disclaimer below – please make sure to read it in full.

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No applications were reviewed for security. No product code has been reviewed.